ABSTRACT OF THE INVENTION

In a wireless network system having a wired backbone
network, one or more access points (APs), and one or more
5   wireless   units   (WUs),   a   technique   wherein   an   AP
automatically   determines   a   factor   indicative   of   the
error(s) occurring in the transmissions of one or more
data packets to associated WUs, and automatically adjust
the   fragmentation   threshold   in   accordance   with   the
10   transmission   error   factor.   The   AP   adjusts   the
fragmentation   threshold   in   a   manner   that   the   data
throughput is increased.   Since the AP automatically and
periodically   gauges   the   wireless   medium   for   RF
interference that can cause data transmission errors, the
15   fragmentation   threshold   can   be   dynamically   adjusted   to
respond to changes in the wireless medium, such as when a
microwave oven is turned on, and/or when a Blue Tooth
device is traversing the wireless medium, etc.   This is
much more effective than having a system administrator
20   periodically gauge the wireless medium for the purpose of
selecting the appropriate fragmentation threshold.